

# TWIST LOCK VALVE FOR FLUID DISPENSING CARTRIDGES

## Abstract

A pressure-activated flexible valve for use with a container for dispensing fluid material such as ink. The valve has a single sealing surface and comprises a base portion having a valve seat and a cap having an annular rim that seats against the valve seat when the valve is closed. The cap has an annular flexible portion that changes shape in response to pressure from the container material, thereby opening and closing the valve. The valve may be locked closed, and the space between the valve rim and valve seat can be adjusted to accommodate a variety of fluids, including inks having different viscosities.